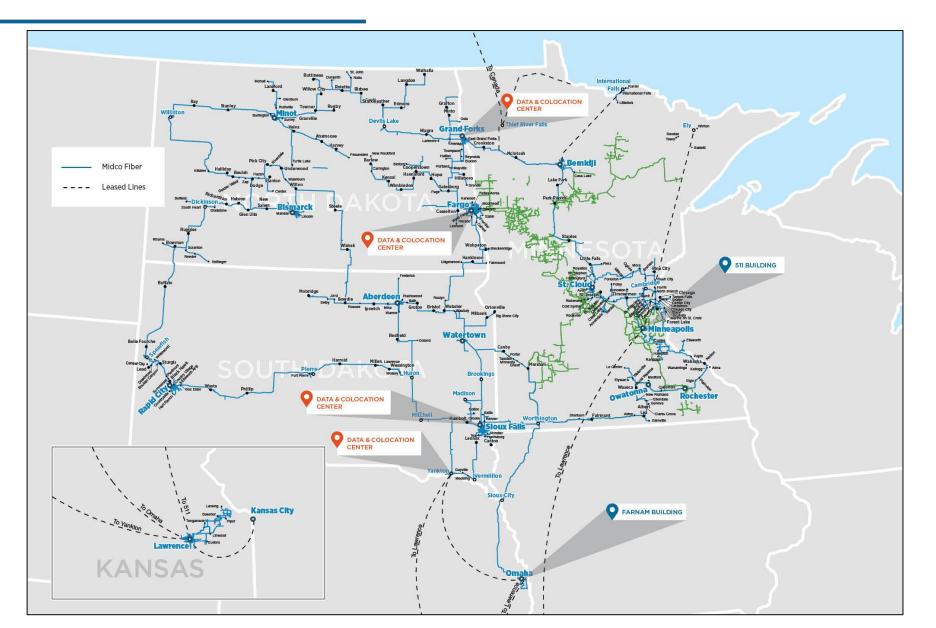
Using the 2.5 GHz Band to Serve Rural America



Midwestern Service





Multiple Services Operator

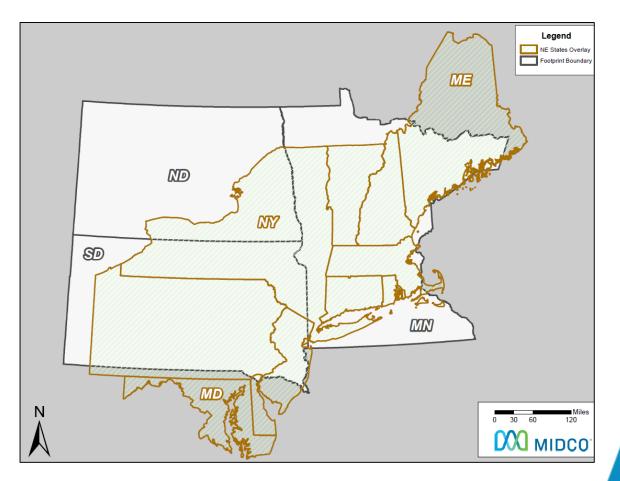
- 10,000 fiber miles; 4 owned data centers; 2 leased data centers
- 365,000+ wired broadband customers; 80% with Gigabit access
- 4,200+ fixed wireless broadband customers; 140 "towers"
- 70,300+ residential phone customers
- 17,600+ Hosted VoIP customers
- 290,700+ video customers
- 1,500+ Midco SmartHome customers
- Tri-state sports network, MidcoSN



Providing Rural Connectivity

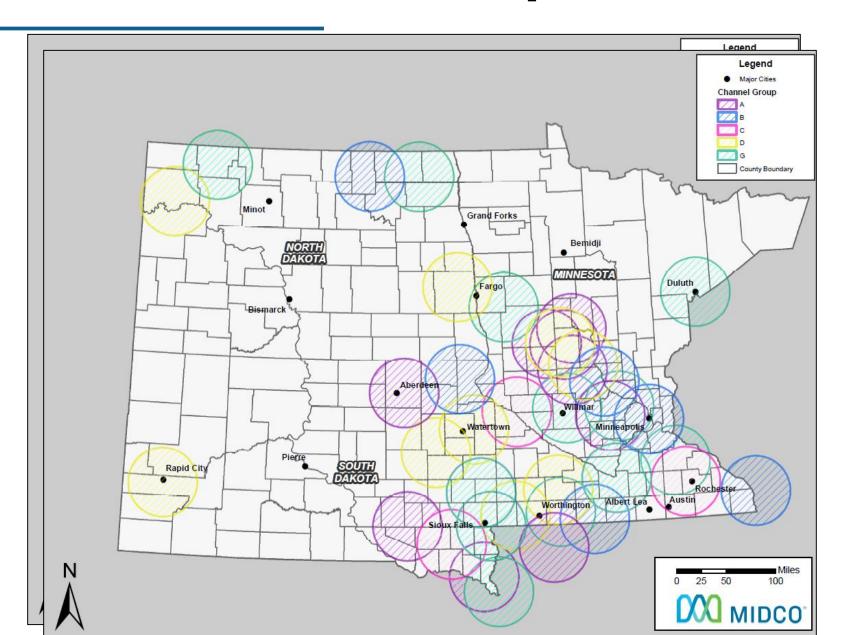
 Northeast population: approx.
 61.2 million

 Midco footprint population: approx.
 7.2 million





EBS Licenses in Footprint





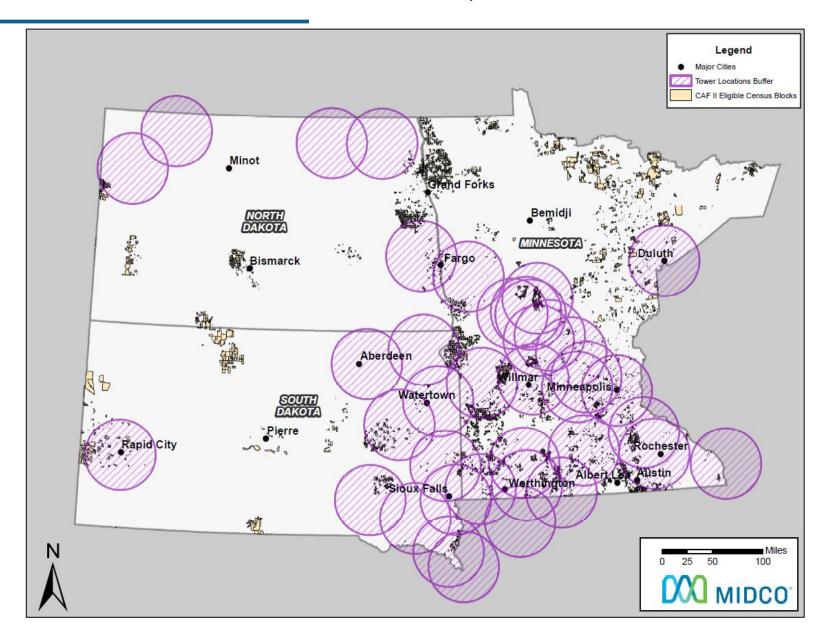
Commercial EBS Use

- 98% of SD, ND, and MN licenses are essentially commercial
 - 102 licenses
 - 73 have a commercial lease
 - Only 6 of the 29 remaining GSAs have an educational licensee
 - 2 of those 6 are out-of-state, i.e., commercial, licensees
 - Another 2 of the 6 indicate recently expired leases

49% of leases associated with Sprint



Even with Commercial Use, Still Unserved Areas





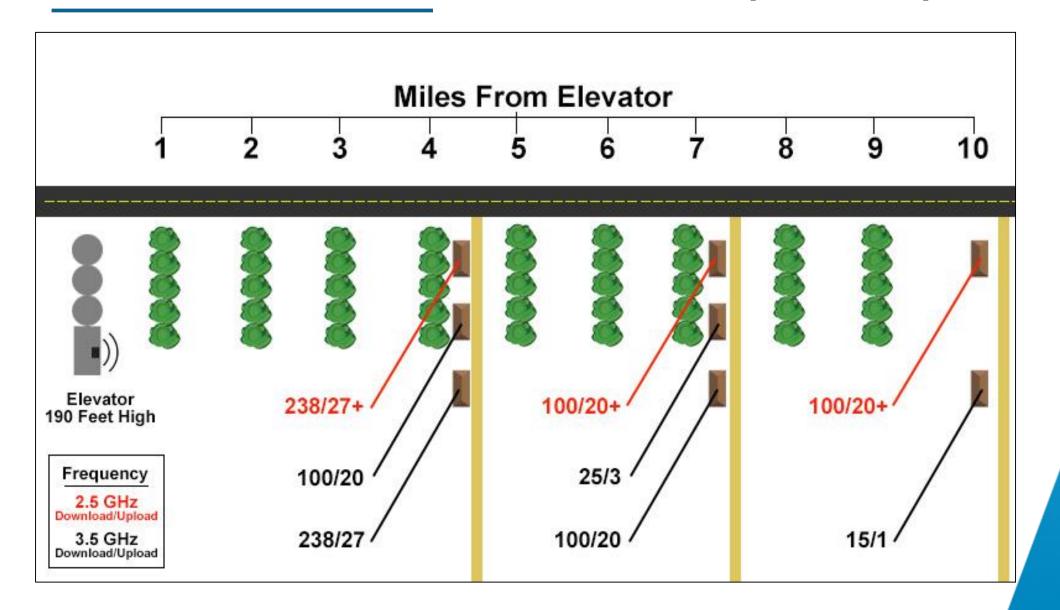
2.5 GHz is Valuable in Rural Areas

- About 1 watt of power allowed in 3.5 GHz;
 but 10 watts in 2.5 GHz with carrier aggregation technology
- Good propagation characteristics for forests and shelter belts

 More opportunities to cover larger, less densely populated areas



3.5 GHz Band v. 2.5 GHz Band (40 MHz)



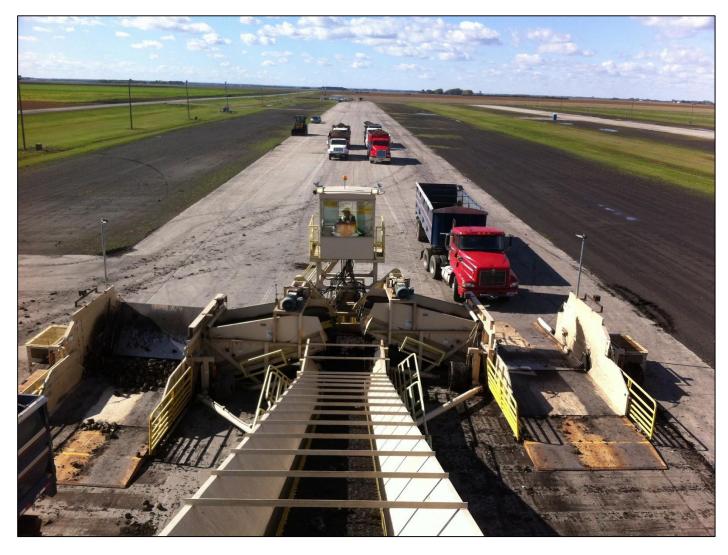


Maximizing the 2.5 GHz Band

- Ideally, 40 MHz of the 2.5 GHz band available to license
 - Consider similar rules for the BRS to increase available spectrum
- At least a 10 MHz channel is best for carrier aggregation
- Contiguous channels easier, but not necessary
- More spectrum equates to more bandwidth for rural Americans, rural businesses, smart agriculture



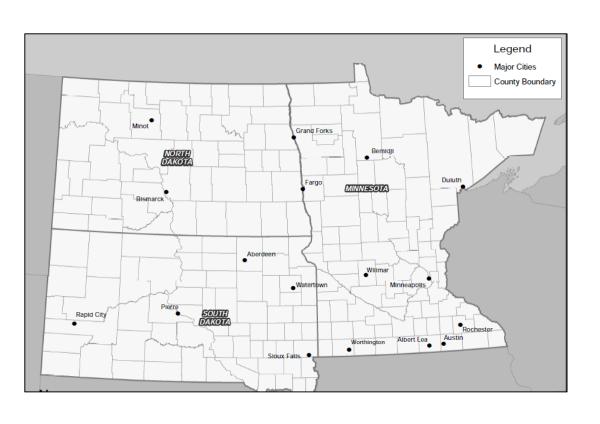
Connecting Rural Businesses

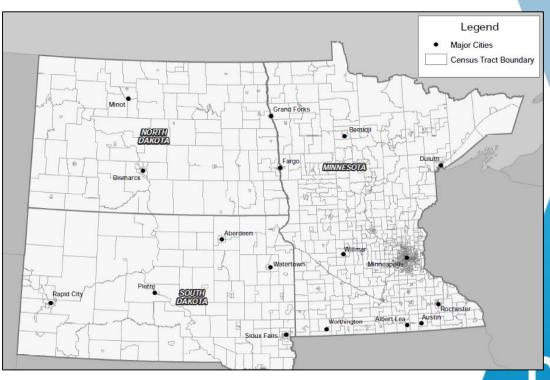






GSAs and New Licenses as County-Sized Licenses





MIDCO

Let's Go®

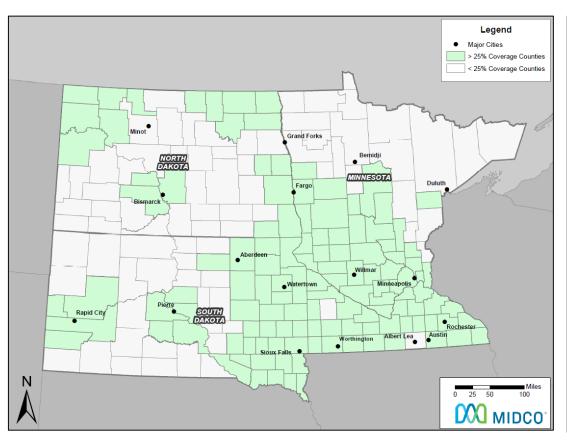
Rationalization of GSAs

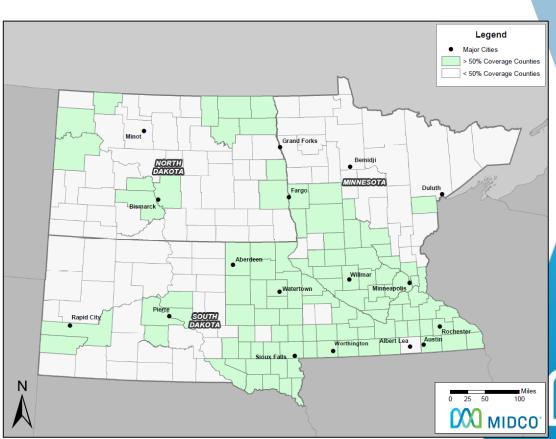
 Given the commercial nature and change of use in spectrum from broadcast to broadband, rationalization is fair

- Rationalize GSAs prior to commercial auction
- Automatic rationalization of GSAs to county-sized licenses if a minimum of 75% of GSA covers the county



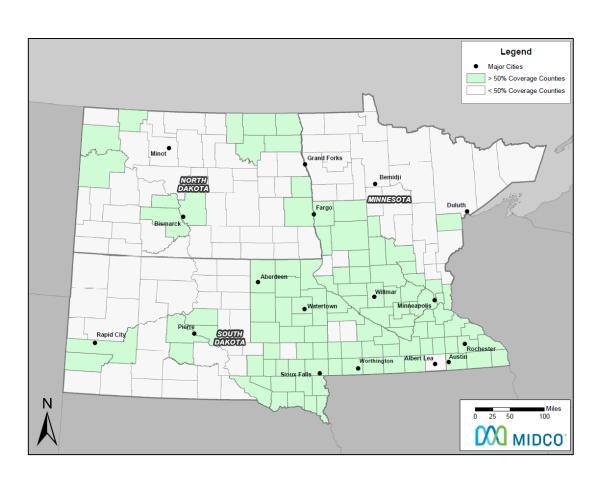
Rationalization on 25% v. 50% of Geography

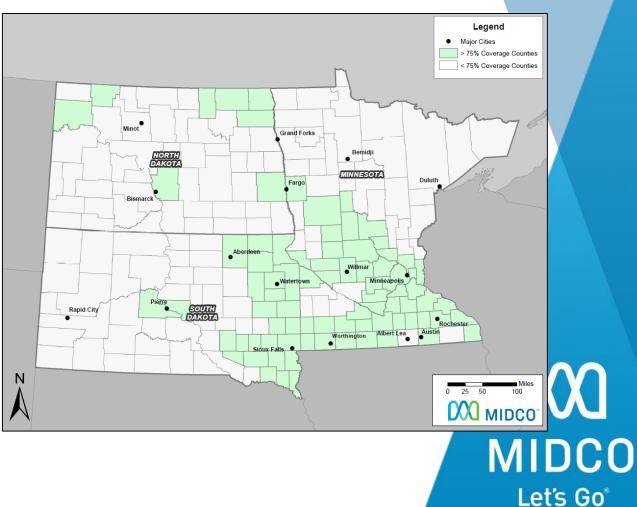




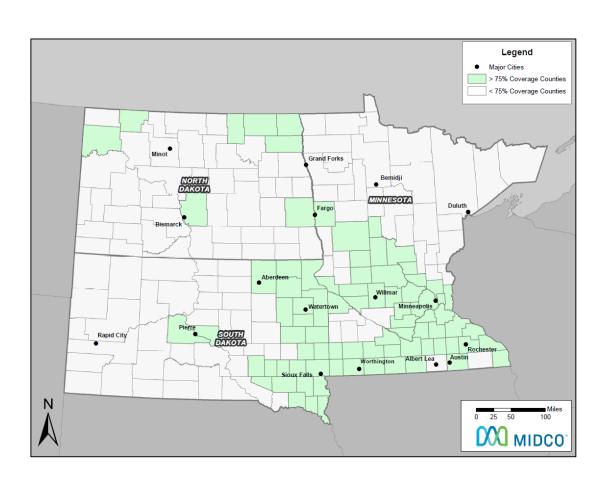


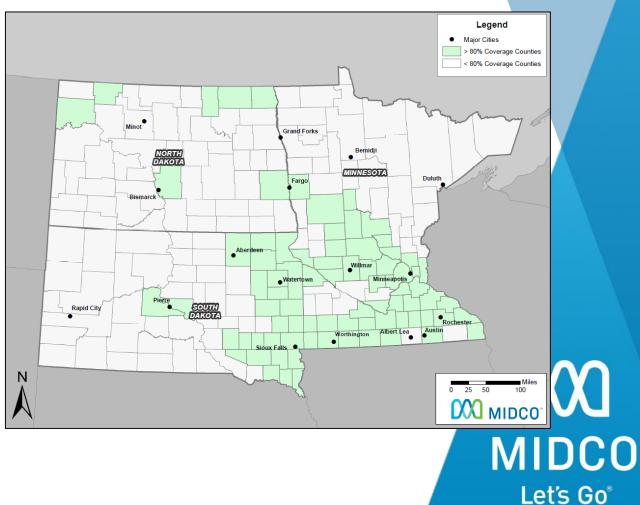
Rationalization on 50% v. 75% Geography





Rationalization on 75% v. 80% of Geography



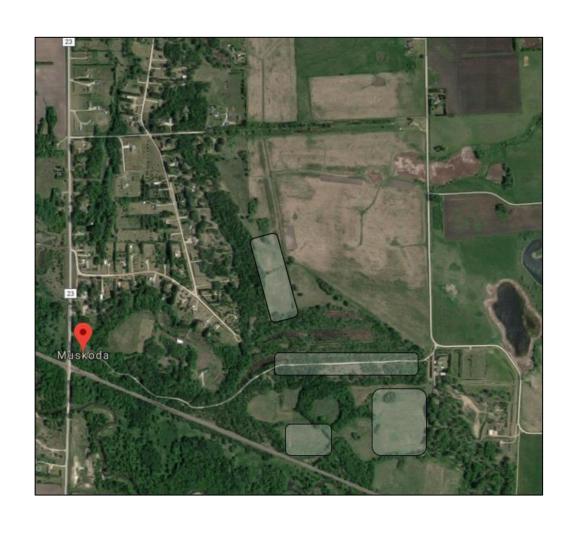


Keep Educational Use

- Distance learning is still important, but is now via the internet
- E-rate program provides much-needed broadband access
- Compromise on band's intentions with its commercial reality by requiring participation in the E-rate program if the provider covers the institution requesting service



2.5 GHz to Close the Digital Divide



- Rationalize GSA to county if a minimum of 75% of county is covered
- Auction county-sized licenses
- Auction procedures to promote rural broadband development
- Require E-rate program participation



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